

**FLUID COMPOSITION SUITABLE FOR THE PRODUCTION AND
PREPARATION OF ION EXCHANGE MEMBRANES**

ABSTRACT

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A fluid composition that contains perfluorinated copolymer of ion exchange with functional groups $-\text{SO}_3\text{M}$, M-hydrogen ions or ions of alkali metals (EM greater than 900) and a polar organic solvent and a non-polar solvent, and as perfluorinated ion exchange copolymer, the composition contains a perfluorinated copolymer of ion exchange with a degree of crystallinity of 2 to 10% and a ratio between the density of the copolymer of ion exchange and the density of the original perfluorinated copolymer in non-ionic form of 0.90-0.97. The ratio of the components is, in % by weight:

- 10 Perfluorinated copolymer of ion exchange 1-35
- 15 Organic polar solvent or mixture of organic polar solvent with non-polar solvent 65-99.

Such compositions are used in the production and reparation of ion exchange membranes, which are used in the alkaline electrolysis with chlorine or in aqueous electrolysis in cells for separating fuel and gas.

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